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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,722	10/627,722 07/28/2003		Atsushi Watanabe	392.1806	7095	
21171	7590	08/05/2004		EXAMINER		
STAAS &		Y LLP	UNDERWOOD, DONALD W			
SUITE 700 1201 NEW		VENUE, N.W.		ART UNIT	PAPER NUMBER	
WASHING				3652		
				DATE MAILED: 08/05/2004	DATE MAILED: 08/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Summer	10/627,722	WATANABE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Donald Underwood	3652	
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the c	orrespondence address	•
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut. Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communica D (35 U.S.C. § 133).	tion.
Status			
1) Responsive to communication(s) filed on 07/2	28/03.		
	s action is non-final.		
Since this application is in condition for allowated in accordance with the practice under the state of	ince except for formal matters, pro		is
Disposition of Claims			
 4) Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) none is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 and 14-18 is/are rejected. 7) Claim(s) 13 is/are objected to. 8) Claim(s) are subject to restriction and/o 	vn from consideration.		
Application Papers			
9)⊠ The specification is objected to by the Examin	er.		
10)⊠ The drawing(s) filed on <u>07/28/03</u> is/are: a)⊠ a	accepted or b) objected to by th	e Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	,		
Priority under 35 U.S.C. § 119			
a) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documen 2. ☐ Certified copies of the priority documen 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati prity documents have been receive tu (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>05/19/04</u>. 		atent Application (PTO-152)	

Application/Control Number: 10/627,722

Art Unit: 3652

Detailed Action

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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2. Claims 5 and 17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

It is unclear how the command torques are altered in accordance with characteristics of the objects.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 5 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what characteristics are set forth.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3652

- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 1-12 and 14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lemelson '290 in view of Joyce.

It would have been obvious to provide a camera and remote control for the arm in Lemelson in view of the teaching in Joyce to provide operation in a remote or hazardous area. Note Lemelson, column 4, lines 20-31, and Joyce camera 19, actuator 10, and monitor 18.

Regarding claim 2, it would be obvious to use the robot to perform any conventional work including placing an object in a jig.

Regarding claim 5, Lemelson denotes the use of electric gear motors. It is conventional in robotics to use motors controlled by torque to prevent damage to the article being handled. It would have been obvious to use such in Lemelson.

Regarding claim 7, the camera in Lemelson as modified by Joyce serves as both detection means.

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Regarding claims 8-11, both types of sensors are well known and patentability

can not be based on the dimensions sensed.

Regarding claim 14, see claim 2 above.

Regarding claim 17, see claim 5 above.

8. Claim 13 is objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

9. Colston discloses the use of torque sensors in robot motors.

10. Any inquiry concerning this communication should be directed to D. Underwood

at telephone number 703-308-1113.

Underwood/vs August 3, 2004

LONALD W. UNDERWOOD
PRIMARY EXAMINER